GAINWARD

Premium Brand of #1 NVIDIA Board Partner

GAINWARD GeForce GTX 1070 PHOENIX
"Golden Sample-Goes Like Hell"

Specifications

Process Technology	16nm	Base Clock	1670 MHz
Processor Cores	1920 cores	Boost Clock	1873 MHz
Memory Amount	8GB	Memory Clock	4250 MHz
Memory Type	256b GDDR5	Memory Bandwidth	272 (GB/Sec)

Key Features

- NVIDIA Pascal architecture, 8GB GDDR5 memory
- NVIDIA GPU Boost 3.0
- 16nm FinFET process
- NVIDIA Ansel technology
- Simultaneous Multi-Projection
- NVIDIA GameWorks technology
- NVIDIA VRWorks technology
- NVIDIA Adaptive Vertical Sync
- NVIDIA G-SYNC ready
- Microsoft DirectX 12 support
- NVIDIA PhysX technology
- Vulkan API support
- NVIDIA SLI ready with HB Bridge support
- PCI Express 3.0 support
- OpenGL 4.5 and OpenCL support
- 1* Dual-link DVI, 1* HDMI (v2.0), 3* DisplayPort (v1.3/1.4 ready)

Gainward Unique Features

OC ✓ Factory over-clocked

Extreme Silent ✓ Extreme silent acoustics in 3D heavy loading under factory over-clocked speed

Extreme Cool ✓ Extreme cool in 3D heavy loading under factory over-clocked speed

Expertool *II* ✓ Gainward's Expertool II – the brand-new utility adds flexible fan curve control and BIOS saving feature for powerful GeForce GTX 1070 card.

Output Support

HDMI : (max. resolution) 4096x2160@60Hz
DP *3 : (max. resolution) 4096x2160@60Hz
DVI-D : (max. resolution) 2560x1600@60Hz

Minimum system requirements

Graphics card require:
- PCI Express-compliant motherboard with one dual-width x16 graphics slot
- One 8-pin PCI Express supplementary power connector
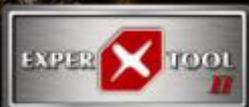- Minimum 500W or greater system power supply
- Microsoft Windows 10, 8, 7

Dimension

Board: 285mm(L)x133mm(W)
Cooler : 2.5 slot
Bracket: 2 slot

Accessory

1. Driver Disc
2. Manual
3. Power cable

GW GTX1070_Phoenix_GLH_bar code: 426018336-3675

Gamer's Spirit!
www.gainward.com

Extreme Silent **Extreme Cool**

NEW PHOENIX COOLER DESIGN
A brand new cooler design brings Extreme Silent/Extreme Cool for Gainward GeForce GTX 1070 Phoenix board.

Gainward superior hardware design

Gainward re-designs the entire hardware, that brings higher stability under high current operation (heavy loading operation).

8 Phases PWM for GPU Cores

Gainward uses 8 phases for GPU cores that helps to supply enough fuel to the 3D graphics engine. This design minimizes current loading and heat generation for each phase to stabilize the voltage level , the overall efficiency can be improved, the choke noise and EMI noise also be reduced.

DrMOS

DrMOS is designed to handle high current with low noise operation and less heat generating.

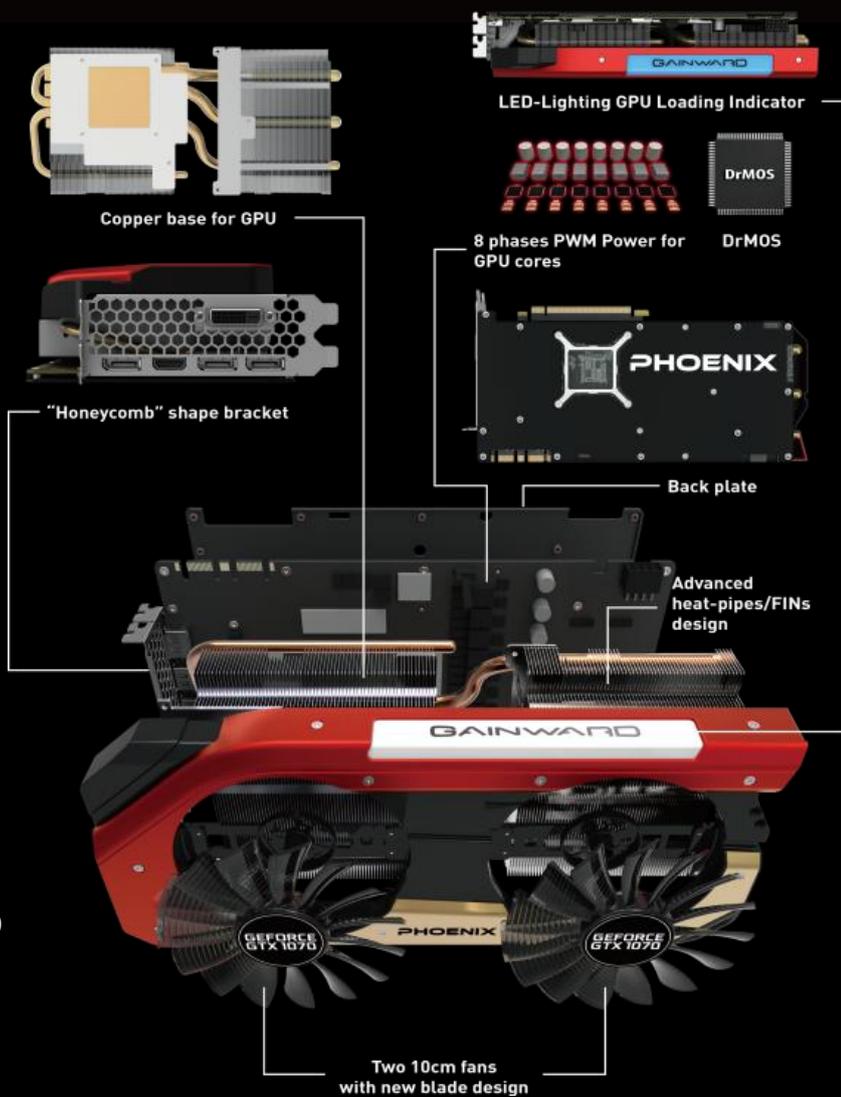## Dual BIOS *(1: OC, 2: standard)*

Gainward provides two VBIOS for GeForce GTX 1070 Phoenix board. Factory over-clocking VBIOS is set on position 1 of the "dual BIOS switch" . Users can over-clocking the Phoenix board with confidence thanks to the "standard-clock setting" in the second VBIOS with position 2 of the "dual BIOS switch" whenever you need.

Extreme silent acoustics in heavy loading mode

Gainward GeForce GTX 1070 Phoenix "GLH" with factory over-clocked speed gets much quieter than founders edition board under full load operation.

Extreme cool temperature in heavy loading mode

Gainward GeForce GTX 1070 Phoenix "GLH" with factory over-clocked speed performs extremely lower GPU temperature than founders edition board with reference clock.

Copper base for GPU

"Honeycomb" shape bracket

LED-Lighting GPU Loading Indicator

8 phases PWM Power for GPU cores

DrMOS

DrMOS

PHOENIX

Back plate

Advanced heat-pipes/FINs design

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PHOENIX

GEFORCE GTX 1070

GEFORCE GTX 1070

Two 10cm fans with new blade design

Expertool *II*

Gainward's Expertool *II* – the brand-new utility adds flexible fan curve control and BIOS saving feature for powerful GeForce GTX 1070 card.

GAINWARD

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4004 MHz MEMORY

1506 MHz CORE Current 135

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